

## **REMARKS**

Claims 1-26 are pending in the application. Claim 24 is allowed pending further search. Claims 1-3, 12-19, 25 and 26 are rejected. Claims 4-7 and 20-23 are objected to.

### **Cross-referenced Applications**

The Specification of the present application was previously amended to indicate that at least a portion of the subject matter of the present patent application is related to at least portions of the relative subject matters of U.S. Patent Application Serial No. 09/999,881 filed on October 31, 2001 and U.S. Patent Application Serial No 10/047,188, filed on January 15, 2002. A Pre-Appeal Brief Review Request has been filed for Serial no. 09/999,881. Serial no. 10/047,188 in prosecution, with an response to office action due on July 31, 2008.

### **Allowable Subject Matter**

Applicants acknowledge and appreciate that the Examiner has indicated that claims 4-7 and 20-23 contain allowable subject matter, subject to a final search. Further, the Examiner allowed claims 8-11 and 24.

### **Claims Rejections 35 U.S.C. 102**

Claims 1-3, 12-19, 25 and 26 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. 6,199,181 (*Rechef*). Applicants respectfully traverse this rejection.

### **Claims Rejections 35 U.S.C. 102(e)**

Claims 1-4, 8-20, 25 and 26 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6,199,181 (*Rechef*). Applicants respectfully traverse this rejection.

Based upon the amendments made to independent claims 1, 12, 13, and 17, Applicants respectfully assert that all claims of the present invention are allowable. Claims 1, 12, 13, and 17 have been amended to contain subject matter deemed allowable by the Examiner. Further, claims

1, 12, 13, and 17 are allowable for at least the reasons cited above. For example, claim 1 (as amended) calls for performing a virtual address memory access using a security level that is established for a software object. This process includes using a secondary table and at least one virtual memory table for perform a virtual address memory access and accessing a portion of a memory based upon the virtual address memory access.. *Rechef* simply does not disclose this subject matter. *Rechef* is directed to protecting an operating environment on a processor from a rogue program operating on the processor. *Rechef* discloses that memory space is allocated for use only by a “first program,” while the first program is executing. *Rechef* is directed to allocating a particular memory space for a particular program, but is not directed to performing virtual address space memory access.

*Rechef* discloses initializing a load master 202 into memory that claims complete control over a CPU. See col. 4, lines 7-9. *Rechef* discloses allocating physical memory to a “cell,” in which a program 306 is confined. See col. 8, lines 8-12; col. 8, lines 44-46. The cell is constructed by setting up the CPU’s protection including I/O permission tables, virtual memory tables, interrupt redirection maps, task tables, segmentation tables, etc. See col. 8, lines 16-22. *Rechef* then discloses protecting the environment by disallowing each program 306 access to resources other than its allocated memory and preset resources assigned to it. See col. 8, lines 31-34. However, *Rechef* simply does not disclose performing any type of a virtual address memory access using any type of a security level for various reasons.

First, the Examiner fails to disclose any disclosure in *Rechef* that relates to establishing a security level for any particular software object. There is no indication of a security level being assigned to a software object in *Rechef*. *Rechef* merely discloses constructing a cell that includes various information for allocating a particular memory resource to the program. *Rechef* merely

discloses predefined and predetermined resource allocation being provided to a particular program, where that program simply accesses those allocated memory resources. In contrast to *Rechef*, based on the security level established for a particular software object, the software object of claim 1 is able to perform virtual address based memory access.

Second, *Rechef* does not anticipate or suggest performing the virtual address memory access based upon a secondary table and at least one virtual memory table. The usage of this table to perform a memory access is simply not disclosed in *Rechef*. *Rechef* is simply directed to predefining memory allocation resources for a program. Therefore, a disclosure of *Rechef* simply does not teach, disclose or suggest claim 1 of the present invention. For similar reasons, claim 8, which also calls for accessing memory based upon security level and a virtual address, including using a secondary table and at least one virtual memory table to perform such access, is not anticipated by the cell which allocates memory resources to a program or *Rechef*. Still further, claims 12, 13, and 17 call for various apparatus that perform the virtual memory access described above and is not taught, disclosed or suggested by *Rechef*. Additionally, claim 24 provides for a method of performing the virtual address memory access described above and is not taught, disclosed or suggested by *Rechef*. Therefore, independent claims 1, 12, 13, 17 and 24 are not taught, disclosed, or suggested by *Rechef*. Further, dependent claims 2-11, 14-16, 18-23, 24-26, which depend from independent claims 1, 12, 13, and 17 respectively, are also not taught, disclosed or suggested for at least the reasons cited herein.

Applicants acknowledge and appreciate that the Examiner had indicated that the subject matter of claims 8-11 and 24 are allowable. Further, in light of the arguments provided herein, all claims of the present invention are allowable for at least the reasons cited herein.


Reconsideration of the present application is respectfully requested. In light of the arguments presented above, Applicants respectfully assert that claims 1-26 are allowable. In light of the arguments presented above, a Notice of Allowance is respectfully solicited.

If for any reason the Examiner finds the application other than in condition for allowance, **the Examiner is requested to call the undersigned attorney at the Houston, Texas telephone number (713) 934-4069** to discuss the steps necessary for placing the application in condition for allowance.

Respectfully submitted,

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